Pulpdent Corporation Revision Date: May 1, 2017

## **Safety Data Sheet**

Trade Name: GLASS IONOMER CEMENTS

1.0	Commercial Product Name and Supplier			
1.1	Commercial product name / designation	GlassFill™, GlassLlne™, GlassLute™ OrthoChoice™ Glass lonomer Band Cement		
1.2 1.2.2	Application / Use SIC	Dental material for use 851 Human health acti	by dental professional c	only.
1.2.3 1.3	Use Category Manufacturer  Pulpdent Corporation 80 Oakland Street, P.O. Box 780	Telephone: 1 617 926- Email: Pulpdent@pulp	6666 / Fax: 1 617 926-6	262
1.4	Watertown, MA 02472 USA Emergency Telephone Number	1-800-535-5053 (24 He		
1.5	Authorized European Representative	Advena Ltd. Pure Offices, Plato Clo Warwick, CV34 6WE United Kingdom	ose	
2.0	Hazards Identification			
2.1	Classification			
2.11	Classification according to Regulation (EC) No 1272/2008 [CLP]	Hazard Class Eye irritation STOT SE Skin irritation Skin sensitization	Hazard Category 2 3 2 1	Hazard Statement H319 H335 H315 H317
2.1.2	Classification according to Directive 67/548/EEC	Irritant (Xi); R 36/3	7/38-43 (See SECTION 16	6 for full text of risk phrases)

#### 2.2 GHS Label Elements

Hazard Pictograms



Signal Word: WARNING

### Restricted to use by dental professional only.

#### **Hazard Statements**

H319: Eye irritation. 2. May cause eye irritation.

H335: STOT SE. 3. May cause respiratory irritation.

H315: Skin irritation. 2. May cause skin irritation.

H317: Sensitization. 1. May cause an allergic skin reaction.

### **Precautionary Statements**

P261: Avoid breathing powder/dust.

P280: Wear protective gloves and eye protection

P305+P351: If in eyes, rinse cautiously with water for several minutes.

P337+P313: If eye irritation persists, get medical advice/attention.

P302+P352: If on skin, wash with plenty of soap and water.

P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P333+P313: If irritation or rash occurs, get medical advice/attention.

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3.0	Composition					
3.1	Chemical chara	acterization of the preparation:	Glass ionomer cements in two parts, powder and liquid, that are mixed together just before use.			
3.2	Hazardous ingr	redients				
	CAS Number	Name of the Ingredient	Concentration	Classification according to 67/548/EEC	Classification according to Regulation (EC) No.1272/2008 (CLP).	
Powder		Alumino-fluorosilicate glass	92-100%	Xi (irritant); R: 36/37/38	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315	
Liquid	9003-01-4	Polyacrylic acid	30-40%	Xi (irritant); R: 36/37/38-43	Eye irritation, 2, H319 STOT SE 3, H335 Skin irritation, 2, H315 Skin sensitization, 1, H317	
4.0	First Aid Meas	sures				
4.1	Special Instructions  May be irritating to eyes, respiratory system, mucous membranes skin. Liquid may cause sensitization by prolonged or repeated scontact. Show this safety data sheet to medical personnel. Get med attention in case of uncertainty.		zation by prolonged or repeated skin			
4.2	Inhalation		Move to fresh air. If necessary, administer oxygen and/or artificial respiration and seek medical attention.			
4.3	Skin Contact		Wash skin thoroughly with soap and running water.		and running water.	
4.4	Eye Contact		Keep eyelids apart and flush with running water for 15+ minutes. Ge medical attention if irritation persists.			
4.5	Ingestion		Rinse mouth and seek medical attention. Never give anything by mouth to an unconscious person.			
4.6	Precautions for first responders  Wear safety glasses, gloves and lab coat. If powder has disperse the air, wear dust mask.		d lab coat. If powder has dispersed into			
4.7	Information for	physician				
	Symptoms		Red and/or ir	Red and/or irritated eyes, mucous membranes or skin.		
	Hazards			May be irritating to eyes, respiratory system, mucous membranes, skin. Liquid may cause sensitization by prolonged or repeated skin contact.		
	Treatment		Same as abo	ve under First Aid.		
5.0	Fire Fighting I	Measures				
5.1	Suitable extinguishing media  Carbon dioxide, dry chemical, alcohol foam, or water for may be used to keep fire exposed containers cool.					
5.2	Extinguishing media to avoid		Do not use di	Do not use direct water stream		
5.3	Special exposure hazards in a fire Heat may cause polymerization with rapid release of energy.					
5.4	Special protect	Special protective equipment for fire-fighters Self-contained breathing apparatus				
6.0	Accidental Re	lease Measures				
6.1	Personal preca	utions.	Ventilate area	a. Wear gloves, lab	coat and safety glasses.	

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6.2	Environmental precautions	Contain spilled material. Follow all government regulations.	
6.3	Method for clean up	Absorb or wipe up spill with paper towels or cloths. Collect for disposal in a covered container. Wash area of spill with alcohol or soap / water.	
7.0	Handling and Storage		
7.1	Handling	Follow good hygiene practices. Cap product immediately after use. Avoid cross contamination and dispersion of powder into the air.	
7.2	Storage	Store product tightly capped in original container at cool room temperature (< 25°C). Avoid getting powder wet; avoid direct, strong light and extremes of temperature (>27°C/80°F, <5°C/40°F). Shelf life for unopened product is three years from date of manufacture, provided that the material has been stored properly.	
7.3	Specific uses	Dental material	
8.0	Exposure Controls / Personal Protection		
8.1	Exposure limit values	PEL: Not establishe TLV: Not establishe	11
8.2	Exposure controls		
8.2.1	Occupational exposure controls	No special equipment required under normal conditions of use.	
8.2.1.1	Respiratory protection	No special equipment required under normal conditions of use.	
8.2.1.2	Hand protection	Usual surgical gloves will limit contact with the glass ionomer liquid.	
8.2.1.3	Eye protection	No special requirements other than the usual safety glasses.	
8.2.1.4	Skin protection	Good personal hygiene and safety practices; wearing a lab coat.	
8.2.1.5	Other controls	Close emergency eye wash fountain. Wash hands after use.	
8.2.2	Environmental exposure controls	Powder is inert. Liquid should not be discharged into environment. Follow all government regulations.	
9.0	Physical and Chemical Properties		
9.1	Characteristics	<u>Powder</u>	<u>Liquid</u>
9.1.1	Appearance /Color	Depends on product	Colorless to pale yellow
9.1.2	Odor	None	Mild, characteristic
9.1.3	Physical state	Fine powder	Viscous liquid
9.2	Important health, safety and environmental infor	mation	
9.2.1	рН	Not applicable	5.50
9.2.2	Boiling point	Not applicable	100∘C
9.2.3	Flash point	Not applicable	> 110°C
9.2.4	Flammability (solid, gas)	Not applicable	Not applicable
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9.2.5	Explosive properties	Not applicable	Not applicable
	Explosive properties Oxidizing properties	Not applicable  Not determined	Not applicable  Not determined

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9.2.8	Specific gravity	5.650	1.250 to 1.150 (depending on product)
9.2.9	Solubility in water	Nil	Dilutable
9.2.10	Partition coefficient	Not applicable	Not determined
9.2.11	Viscosity	Not applicable	Not determined
9.2.12	Vapor density	Not applicable	0.62
9.2.13	Evaporation rate	Not applicable	< 1
10.0	Stability and reactivity		
10.1	Conditions to avoid	Temperature > 38°C, cross-cont	amination.
10.2	Materials to avoid	Powder: Strong acids. Liquid: acids, bases, ammonia, sodium hydroxide, potassium hydroxide and strongly basic amines	
10.3	Hazardous decomposition products	Carbon monoxide, carbon dioxid	le, acrylic monomers.
10.4	Further information	Stable if stored and used as dire	ected.
11.0	Toxicological information		
11.1	Acute toxicity	Not toxic. Minimal health hazard in the quantities present in this product and under normal conditions of use.	
11.2	Irritation and corrosiveness	May be irritating to eyes, respiratory system, mucous membranes or skin on contact or with prolonged exposure.	
11.3	Sensitization	May be sensitizing. Prolonged/frequent skin contact with liquid may cause allergic skin reaction in those sensitive to acrylics.	
11.4	Sub-acute, sub-chronic and prolonged toxicity	Prolonged/frequent skin contact may cause eye, skin, mucous membrane and respiratory system irritation.	
11.5	Carcinogenicity, Mutagenicity, Reproductive Toxicity	None known	
11.6	Empirical data	Not available	
11.7	Clinical Experience	Glass Ionomer Cements have been used safely and effectively in the US and internationally for more than 25 years.	
12.0	Ecological Information		
12.1	Ecotoxicity		Glass lonomer Powders are inert. d not be discharged into the ent regulations.
13.0	Disposal Considerations		
13.1	Regulations	Follow all local and national government regulations in disposing material or contaminated packaging.	
14.0	Transport Information		
14.1	Restrictions	None. Not regulated by IATA.	
	Regulatory Information		
15.0	regulatory information		
<b>15.0</b> 15.1	EU EU	Class Ila medical device under t	he MDD 93/42/EEC.

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16.0	Other information	
16.1	List of relevant R phrases	R36/37/38, Irritating to eyes, respiratory system and skin R43, Sensitizing by skin contact
16.2	Hazard Statements	H261: Avoid breathing powder/dust.
		H319: Eye irritation. Hazard category 2.
		H335: Specific Target Organ Toxicity - Single exposure; hazard category. 3. Respiratory tract irritation.
		H315: Skin irritation. Hazard category 2.
		H317: Skin Sensitization. Hazard category 1.
16.3	Precautionary Statements	P280: Wear protective gloves and eye protection
		P304+340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing.
		P305+P351: If in eyes, rinse cautiously with water for several minutes.
		P337+P313:If eye irritation persists, get medical advice/attention.
		P302+P352: If on skin, wash with plenty of soap and water.
		P333+P313: If irritation or rash occurs, get medical advice / attention.
16.4	Restrictions on use	Glass lonomer Cements are for use by dental professionals only.
16.5	Further information	The information presented herein is believed to be factual as it has been derived from the works of persons believed to be qualified experts. However, nothing contained in this information is to be taken as a warranty or representation for which Pulpdent Corporation bears legal responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.
16.6	Sources of key data	National Institute for Occupational Safety (NIOSH) US Occupational Safety and Health Administration (OSHA) Eur-Lex European Union Law: Regulation (EC) No. 1272/2008 (CLP) and Regulation (EC) No. 1907/2006 (REACH). Guidance on the compilation of safety data sheets. Version 1.1; December 2011. European Chemicals Agency
16.6	Information which has been added, deleted or revised.	This Safety Data Sheet has been revised to meet the requirements of the GHS SDS format and Regulations (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH). Specifically, Sections 2.1, 2.2, 3.2, 16.2, 16.3 have been modified.

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